WHAT IS CLAIMED IS:

1	1.	A method of purifying used oil comprising the steps of:
2		providing a predetermined quantity of used oil;
3		contacting the used oil with a predetermined quantity of a base;
4		contacting the used oil with a predetermined quantity of a phase transfer
5		catalyst;
6		mixing the composition comprising used oil, base, and phase transfer catalyst for
7		a predetermined period of time;
8		heating the composition to a predetermined temperature;
9		distilling the resultant mixture;
9 9 3		mixing the resulting distillate with a solvent thereby dissolving the contaminants
1		from the petroleum distillate into the solvent;
2		separating the solvent having the contaminants dissolved therein from the
3		petroleum distillate;
4		subsequently separating the contaminants from the solvent and recovering the
4 5 6		solvent;
6		recovering any remaining solvent from the petroleum distillate; and
7		reusing the recovered solvent to extract contaminants from subsequent
8		quantities of petroleum distillate.

- 1 2. The method of Claim 1 wherein the distilling step removes water and catalyst and
- 2 produces base lubricating oil from the mixture.
- 1 3. The method of Claim 1 wherein the distilling step produces at least two base lubricating
- 2 oil cuts, and wherein the subsequent mixing step is carried out by separately mixing each of the
- 3 base lubricating oil cuts with the solvent.